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PAGE: 1

### RAW SEQUENCE LISTING PATENT APPLICATION US/08/849,117

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This Raw Listing contains the General Information Section and up to the first 5 pages.

2 (1) General Information: 4 (i) APPLICANTS: Hallenbeck, Paul L. 6 Chang, Yung-Nien 7 Chiang, Yawen L. 8 (ii) TITLE OF INVENTION: Vectors for Tissue-Specific Replication 10 (iii) NUMBER OF SEQUENCES: 8 12 (iv) CORRESPONDENCE ADDRESS: 14 (A) ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C. 15 (B) STREET: 1100 New York Avenue NW 16 (C) CITY: Washington 17 (D) STATE: D.C. 18 (E) COUNTRY: U.S.A. 19 (F) ZIP: 20005-3934 20 (V) COMPUTER READABLE FORM: 21 (A) MEDIUM TYPE: Floppy disk 23 (B) COMPUTER: IBM PC compatible 24 (C) OPERATING SYSTEM: PC-DOS/MS-DOS 25 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 26 (VI) CURRENT APPLICATION DATA: 28 (A) APPLICATION NUMBER: 08/849,117 29 (B) FILING DATE: 1-AUG-1997 30 (C) CLASSIFICATION: 31 (Vii) PRIOR APPLICATION DUMBER: US 08/487,992 35 (C) CLASSIFICATION: 36 (VII) PRIOR APPLICATION NUMBER: US 08/487,992 36 (B) FILING DATE: 07-JUN-1995 37 (VII) PRIOR APPLICATION NUMBER: US 08/348,258 39 (B) FILING DATE: 28-NOV-1994 40 (C) CLASSIFICATION: 41 (IX) ATTORNEY/AGENT INFORMATION: 42 (IX) ATTORNEY/AGENT INFORMATION: 43 (A) NAME: Esmond, Robert W. 44 (B) REGISTRATION NUMBER: 32,893 45 (C) REFERENCE/DOCKET NUMBER: 1136.0020002	1	SEQUENCE LISTING ENTE
(i) APPLICANTS: Hallenbeck, Paul L. Chang, Yung-Nien Chiang, Yawen L.  (ii) TITLE OF INVENTION: Vectors for Tissue-Specific Replication  (iii) NUMBER OF SEQUENCES: 8  (iv) CORRESPONDENCE ADDRESS: (A) ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C. (B) STREET: 1100 New York Avenue NW (C) CITY: Washington (D) STATE: D.C. (E) COUNTRY: U.S.A. (F) ZIP: 20005-3934  (V) COMPUTER READABLE FORM: (A) MEDIUM TYPE: Floppy disk (B) COMPUTER: IBM PC compatible (C) OPERATING SYSTEM: PC-DOS/MS-DOS (D) SOFTWARE: PatentIn Release #1.0, Version #1.30  (vi) CURRENT APPLICATION DATA: (A) APPLICATION NUMBER: 08/849,117 (B) FILING DATE: 1-AUG-1997 (C) CLASSIFICATION:  (vii) PRIOR APPLICATION NUMBER: US 08/487,992 (B) FILING DATE: 1-AUG-1997 (C) CLASSIFICATION:  (vii) PRIOR APPLICATION NUMBER: US 08/487,992 (B) FILING DATE: 1-AUG-1995 (C) CLASSIFICATION:  (vii) PRIOR APPLICATION NUMBER: US 08/348,258 (B) FILING DATE: 28-NOV-1994 (C) CLASSIFICATION:  (ix) ATTORNEY/AGENT INFORMATION: (A) NAME: ESMOND, ROBERT W. (B) REGISTRATION NUMBER: 32,893 (C) REFERENCE/DOCKET NUMBER: 1136.0020002		
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(v)   COMPUTER READABLE FORM:   (A)   MEDIUM TYPE: Floppy disk	13 14 15 16 17 18	(A) ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C. (B) STREET: 1100 New York Avenue NW (C) CITY: Washington (D) STATE: D.C. (E) COUNTRY: U.S.A.
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(vii) PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: US 08/487,992  (B) FILING DATE: 07-JUN-1995  (C) CLASSIFICATION:  (Viii) PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: US 08/348,258  (B) FILING DATE: 28-NOV-1994  (C) CLASSIFICATION:  (ix) ATTORNEY/AGENT INFORMATION:  (A) NAME: Esmond, Robert W.  (B) REGISTRATION NUMBER: 32,893  (C) REFERENCE/DOCKET NUMBER: 1136.0020002	27 28 29 30	(A) APPLICATION NUMBER: 08/849,117 (B) FILING DATE: 1-AUG-1997
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47	(x) TELECOMMUNICATION INFORMATION:	
48	(A) TELEPHONE: (202) 371-2600	
49	(B) TELEFAX: (202) 371-2540	
50	(C) TELEX: 248636 SSK	
51	(1)	
52		
53		
54	(2) INFORMATION FOR SEQ ID NO:1:	
55	(2) INFORMATION FOR SEQ 15 NO.1.	
56	(i) SEQUENCE CHARACTERISTICS:	
	· · · · · · · · · · · · · · · · · · ·	
57	(A) LENGTH: 66 base pairs	
58	(B) TYPE: nucleic acid	
59	(C) STRANDEDNESS: single	
60	(D) TOPOLOGY: linear	
61		
62	(ii) MOLECULE TYPE: DNA	
63		
64		
65	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:	•
66		
67	GGGCGCCC TGGAAAGTCC GGCTGGGGCG GGGACTGTGG GTTTCAGGGT AGAACTGCGT	60
68		
69	GTGGAA	66
70		
71	(2) INFORMATION FOR SEO ID NO:2:	
72		
73	(i) SEQUENCE CHARACTERISTICS:	
74	(A) LENGTH: 64 base pairs	
75	(B) TYPE: nucleic acid	
76	(C) STRANDEDNESS: single	
77	(D) TOPOLOGY: linear	
	(b) TOPOLOGI: IInear	
78	(ii) NOT EQUIT E MUDE. DAN	
79	(ii) MOLECULE TYPE: DNA	
80		
81		
82	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:	
83		
84	CGGGACAGGG AGCGGTTAGA AGGGTGGGGC TATTCCGGGA AGTGGTGGGG GGAGGGAACT	60
85		
86	AGTA	64
87		
88	(2) INFORMATION FOR SEQ ID NO:3:	
89		
90	(i) SEQUENCE CHARACTERISTICS:	
91	(A) LENGTH: 63 base pairs	
92	(B) TYPE: nucleic acid	
93	(C) STRANDEDNESS: single	
94	(D) TOPOLOGY: linear	
95	• •	
96	(ii) MOLECULE TYPE: DNA	
97	· · · · · · · · · · · · · · · · · · ·	
98		
99	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	

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137	GACCCGGGCG CGCCGGAGCA GTGCTATTCA AACCATCCAG	40
138		
139	(2) INFORMATION FOR SEQ ID NO:6:	
140		
141	(i) SEQUENCE CHARACTERISTICS:	
142	(A) LENGTH: 40 base pairs	
143	(B) TYPE: nucleic acid	
144	· (C) STRANDEDNESS: single	
145	(D) TOPOLOGY: linear	
146		
147	(ii) MOLECULE TYPE: DNA	
148		
149		
150	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:	
151		
152	CGAGATCTAC TAGTTCTGCA CCAATAGGTT AATGAGTGTC	40

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153		
154		
155		
156		
157		
158	(2) INFORMATION FOR SEQ ID NO:7:	
159	•	
160	(i) SEQUENCE CHARACTERISTICS:	
161	(A) LENGTH: 33 base pairs	
162	(B) TYPE: nucleic acid	
163	(C) STRANDEDNESS: single	
164	(D) TOPOLOGY: linear	
165		
166	(ii) MOLECULE TYPE: DNA	
167		
168		
169	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:	
170		
171	GACCCGGGCG CGCCTCTGTC ACCTTCCTGT TGG	33
172		
173	(2) INFORMATION FOR SEQ ID NO:8:	
174		
175	(i) SEQUENCE CHARACTERISTICS:	
176	(A) LENGTH: 34 base pairs	
177	(B) TYPE: nucleic acid	
178	(C) STRANDEDNESS: single	
179	(D) TOPOLOGY: linear	
180	•	
181	(ii) MOLECULE TYPE: DNA	
182		
183		
184	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
185		
186	CGAGATCTAC TAGTTCTCTG CTGTCTGCTC TGTC	34
187		

# **SEQUENCE VERIFICATION REPORT** PATENT APPLICATION *US/08/849,117*

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